

REMARKS

Early consideration and allowance of the above-referenced patent application is respectfully requested.

Claims 4-9 and 11 have been amended.

The claims have been amended to remove multiple dependencies and to otherwise conform with U.S. claim practice. No new matter has been entered. None of the amendments are submitted for reasons of patentability.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment. The attached page is captioned "**Version with markings to show changes made.**"

Respectfully submitted,

Date:

July 15, 2001

John W. Caldwell
Registration No. 28,937

WOODCOCK WASHBURN KURTZ
MACKIEWICZ & NORRIS
One Liberty Place - 46th Floor
Philadelphia, PA 19103
(215) 568-3100

09889537 102501

VERSION WITH MARKINGS TO SHOW CHANGES MADE**In the claims:**

Claims 4-9 and 11 have been amended as follows:

4. (Amended)An apparatus [as claimed in any preceding claim] in accordance with claim 1, wherein the antenna for emitting electromagnetic radiation into the fluid material is disposed within the resonant cavity such as to project into the fluid material, the antenna being provided with an insulating layer by which is it electrically isolated from the fluid material.

5. (Amended)An apparatus [as claimed in any preceding claim] in accordance with claim 1, wherein the boundary of the resonant cavity comprises a conductive wall whose inner surface is covered by said electrically insulating layer by which the wall is electrically isolated from the fluid material within the cavity.

6. (Amended)An apparatus [as claimed in any preceding claim] in accordance with claim 1, wherein the resonant cavity has an inlet and an outlet such that the fluid material can flow through the cavity.

7. (Amended)An apparatus [as claimed in any preceding claim] in accordance with claim 1, wherein the means for detecting electromagnetic radiation within the cavity comprise a receiver antenna disposed within the resonant cavity and electrically isolated from the fluid material within the cavity.

8. (Amended)An apparatus [as claimed in any of claims 1 to 6] in accordance with claim 1, wherein the means for detecting electromagnetic energy within the cavity comprise electronics connected to the emitter antenna for measuring the voltage standing wave ratio.

9. (Amended)A device for monitoring constituents of a fluid flow comprising an apparatus [as claimed in any preceding claim] in accordance with claim 1.

09889537-102504
THOM-0016

11. (Amended)A device as claimed in claim 9 [or claim 10], further comprising means for measuring additional properties of the fluid flow and calculating means for determining, on the basis of the measured properties, the proportions of certain constituents of the flow.

09889537 "102501
T05201" 7568860